

=> FILE REG
FILE 'REGISTRY' ENTERED AT 12:55:47 ON 21 AUG 2008
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=> D HIS

FILE 'LREGISTRY' ENTERED AT 12:47:17 ON 21 AUG 2008
E TRIPHENYLMETHANE/CN

L1 1 S E3
L2 STR 519-73-3

FILE 'REGISTRY' ENTERED AT 12:48:43 ON 21 AUG 2008

L3 SCR 2043
L4 3 S L2 AND L3
L5 STR L2
L6 1 S L5 AND L3
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SAV L7 GAR389/A

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L8 0 S L7

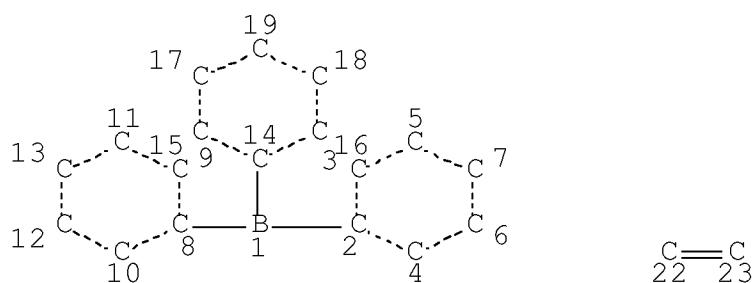
FILE 'ZCA' ENTERED AT 12:54:02 ON 21 AUG 2008

L9 42 S L7
L10 2 S 1840-2004/PY,PRY,AY AND L9

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=> D L7 QUE STAT

L3 SCR 2043
L5 STR



NODE ATTRIBUTES:

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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE

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SEARCH TIME: 00.00.01 80 ANSWERS

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FILE 'ZCA' ENTERED AT 12:56:02 ON 21 AUG 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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=> D L10 1-2 ALL HITSTR

L10 ANSWER 1 OF 2 ZCA COPYRIGHT 2008 ACS on STN

AN 143:98162 ZCA Full-text

ED Entered STN: 28 Jul 2005

TI Boron-containing polymer compound and organic light emitting device using the same

IN Kato, Tsuyoshi; Kondo, Kunio

PA Showa Denko K.K., Japan

SO PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C08F030-06

ICS C08F230-06; C08F008-00; H01L051-30

CC 37-3 (Plastics Manufacture and Processing)

Section cross-reference(s): 73

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI WO 2005061562 A1 20050707 WO 2004-JP18859 200412
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KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
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VN, YU, ZA, ZM, ZW

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JP 2005200638 A 20050728 JP 2004-358624 200412
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EP 1697431 A1 20060906 EP 2004-807217 200412
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CN 1894290 A 20070110 CN 2004-80037806 200412
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KR 2007001090 A 20070103 KR 2006-713402 200607
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PRAI JP 2003-422040 A 20031219 <--
US 2003-532919P P 20031230 <--
WO 2004-JP18859 W 20041210 <--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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	ICS	C08F230-06; C08F008-00; H01L051-30

		IPCI	C08F0030-06 [ICM, 7]; C08F0030-00 [ICM, 7, C*]; C08F0230-06 [ICS, 7]; C08F0230-00 [ICS, 7, C*]; C08F0008-00 [ICS, 7]; H01L0051-30 [ICS, 7]; H01L0051-05 [ICS, 7, C*]
		IPCR	C08F0008-00 [I, C*]; C08F0008-00 [I, A]; C08F0008-42 [I, A]; C08F0030-00 [I, C*]; C08F0030-06 [I, A]; C08F0230-00 [I, C*]; C08F0230-06 [I, A]; H01L0051-05 [I, C*]; H01L0051-30 [I, A]; H01L0051-50 [N, C*]; H01L0051-50 [N, A]
		ECLA	H01L051/00M12D; C08F008/42; C08F030/06; H01L051/00M2D; H01L051/00M12F2; T01L; T01L; T01L;
JP 2005200638		IPCI	C08F0030-06 [ICM, 7]; C08F0030-00 [ICM, 7, C*]; C09K0011-06 [ICS, 7]; H05B0033-14 [ICS, 7]; C07F0005-02 [ICS, 7]; C07F0005-00 [ICS, 7, C*]
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		NCL	526/239.000; 252/301.160; 252/301.350; 257/040.000; 257/E51.033; 257/E51.036; 257/E51.044; 313/504.000; 428/690.000; 428/917.000; 526/241.000
KR 2007001090		IPCI	C08F0030-06 [I, A]; C08F0030-00 [I, C*]; C08F0230-06 [I, A]; C08F0230-00 [I, C*]; C08F0008-42 [I, A]; C08F0008-00 [I, C*]; H01L0051-30 [I, A]; H01L0051-05 [I, C*]

AB The present invention provides a polymer material showing high luminous efficiency at a low voltage and suitable for increasing the

emission area and for the mass prodn., and an org. light emitting device using the same. The present invention relates to a polymer compd. comprising a boron-contg. monomer unit represented by [CR16(XA)CH₂]: where A represents a tri-Ph boron group in which the Ph group may be substituted, R₁₆ represents a hydrogen atom or an alkyl group having 1 to 12 carbon atoms, X represents a single bond, -O-, -S-, -SO-, -SO₂- or a divalent hydrocarbon group having 1 to 20 carbon atoms which may have a hetero atom, a light-emitting polymer compd. comprising the boron-contg. monomer unit and a light-emitting monomer unit, a light-emitting compn. comprising the boron-contg. monomer unit and a light-emitting low-mol. compd. or light-emitting polymer compd., and org. light-emitting device using the light-emitting polymer compd. or the light-emitting compn.

ST boron polymer org light emitting device

IT Electroluminescent devices

Phosphorescent substances

(boron-contg. polymer compd. and org. light emitting device using the same)

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 149228-92-2P 162247-15-6P 856695-21-1P 856695-22-2P
 856695-23-3P 856695-24-4P 856695-25-5P 856695-26-6P
 856695-27-7P 856695-28-8P 856695-29-9P 856695-30-2P
 856695-31-3P 856695-32-4P 856695-33-5P 856695-34-6P
 856695-35-7P 856695-36-8P 856695-37-9P 856695-38-0P
 856695-39-1P 856695-40-4P

(boron-contg. polymer compd. and org. light emitting device using the same)

IT 856695-41-5P 856695-42-6P 856695-43-7P
 856695-44-8P 856695-45-9P 856695-46-0P
 856695-47-1P 856695-48-2P 856695-49-3P
 856695-50-6P 856695-51-7P 856695-52-8P
 856695-53-9P 856695-55-1P 856695-56-2P
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(boron-contg. polymer compd. and org. light emitting device using the same)

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 109-63-7, Borontrifluoride ether complex 119-93-7 436-59-9,
 Dimesitylboronfluoride 625-95-6, 3-Iidotoluene 1493-13-6,
 Trifluoromethanesulfonic acid 2156-04-9 5122-94-1 7463-51-6,
 4-Bromo-3,5-dimethylphenol 7486-35-3, Tributyl vinyl tin
 18162-48-6, tert-Butyldimethylchlorosilane 37181-39-8,
 Trifluoromethane sulfonate

(boron-contg. polymer compd. and org. light emitting device using

the same)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Anon; PATENT ABSTRACTS OF JAPAN 2001, V2000(13)
- (2) Anon; PATENT ABSTRACTS OF JAPAN 2003, V2003(08)
- (3) Chisso Corporation; EP 1142895 A 2001 ZCA
- (4) Covion Organic Semiconductors GmbH; EP 1217668 A 2002 ZCA
- (5) Hokko Chem Ind Co Ltd; JP 2000297118 A 2000 ZCA
- (6) Showa Denko Kk; JP 2003113246 A 2003 ZCA

IT 856695-41-5P 856695-42-6P 856695-43-7P
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856695-47-1P 856695-48-2P 856695-49-3P
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(boron-contg. polymer compd. and org. light emitting device using
the same)

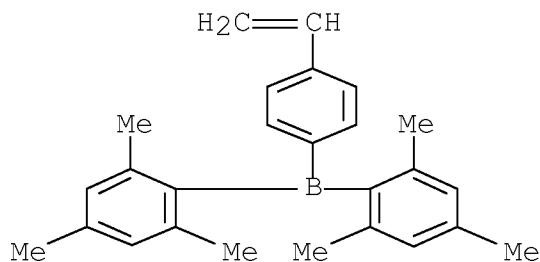
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CN Borane, (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)-, homopolymer
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CMF C26 H29 B

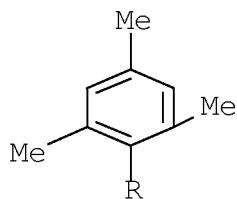
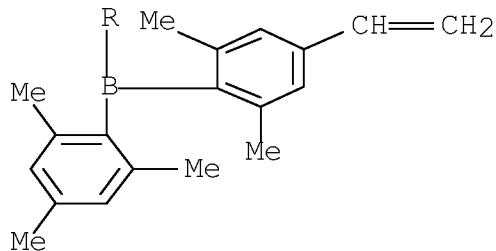


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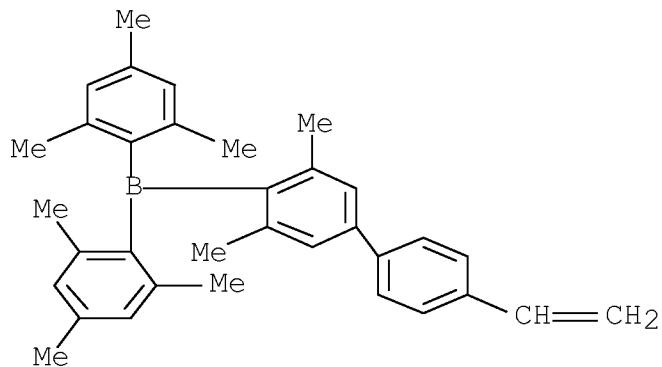
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CMF C28 H33 B



RN 856695-43-7 ZCA
CN Borane, (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)-, homopolymer (9CI) (CA INDEX NAME)

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CRN 856695-27-7
CMF C34 H37 B



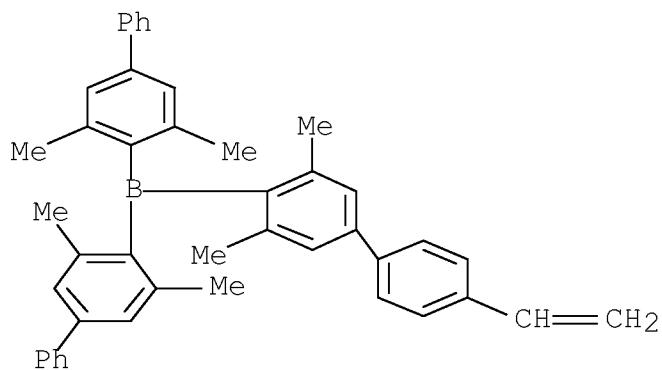
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CN Borane, bis(3,5-dimethyl[1,1'-biphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)-, homopolymer (9CI) (CA INDEX NAME)

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CRN 856695-28-8

CMF C44 H41 B



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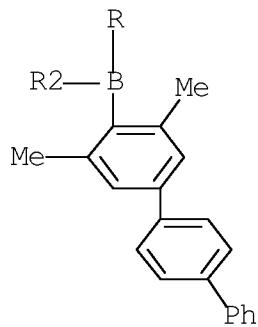
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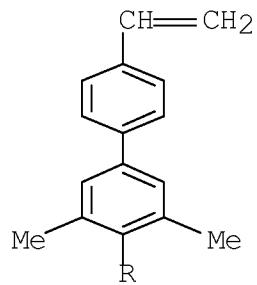
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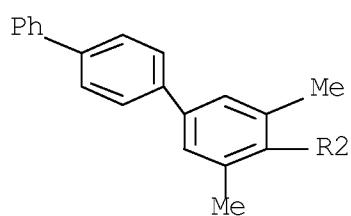
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PAGE 2-A



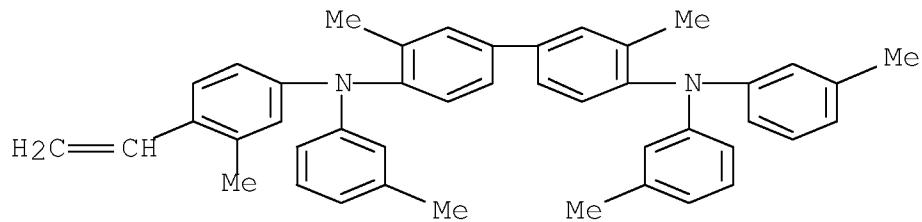
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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

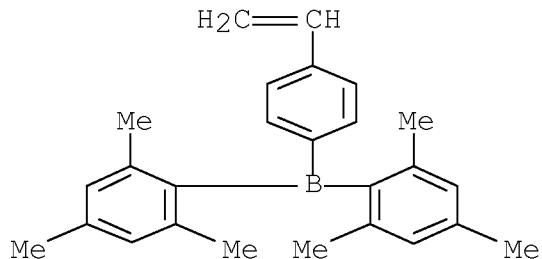
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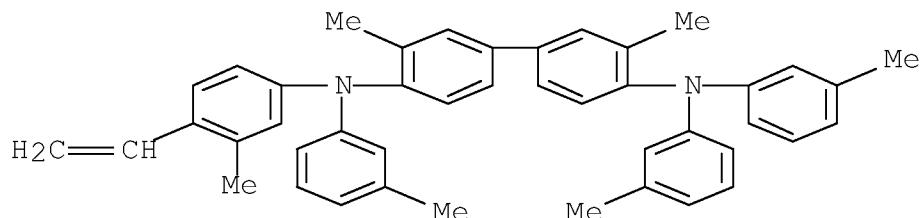


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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

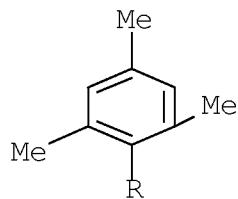
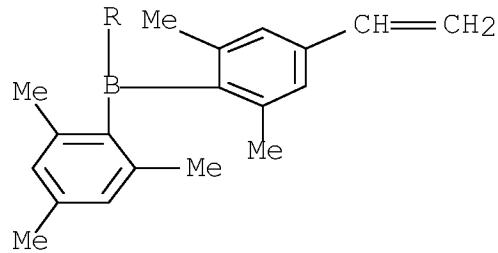
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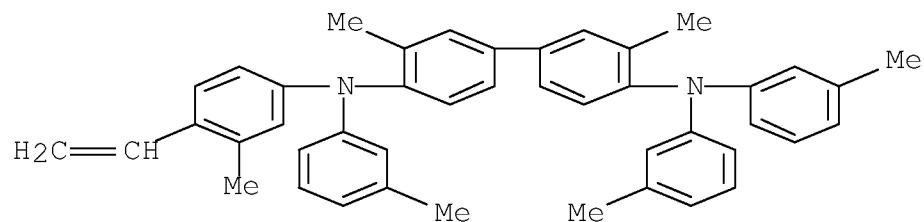


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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

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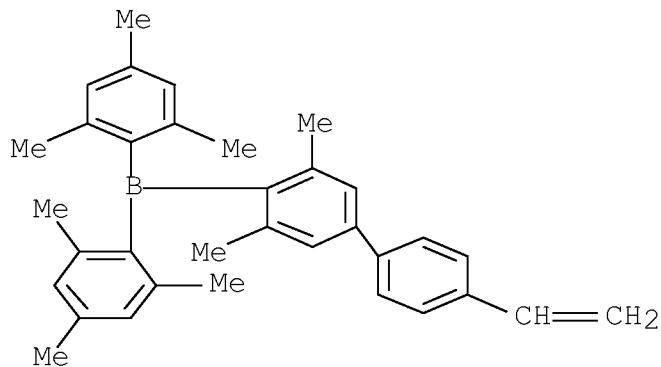
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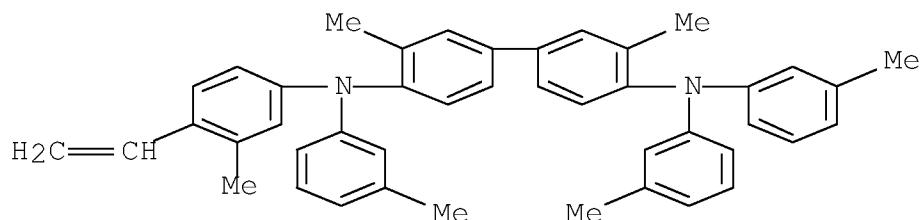
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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (CA INDEX NAME)

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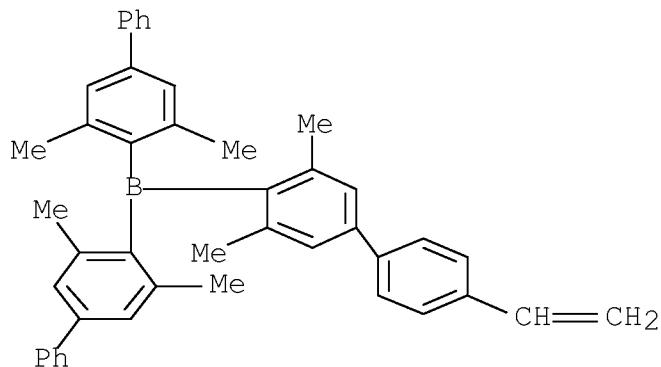
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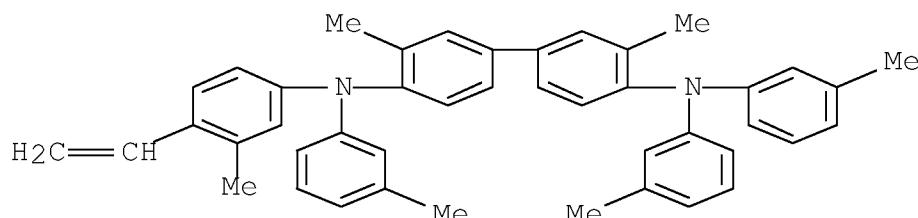
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CMF C44 H41 B



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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX NAME)

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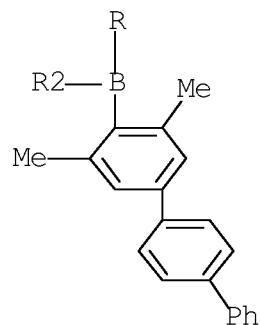
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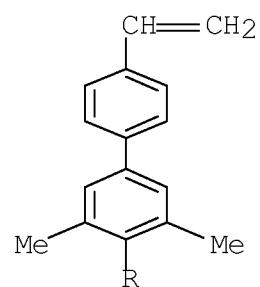
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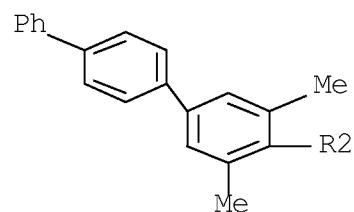
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PAGE 3-A



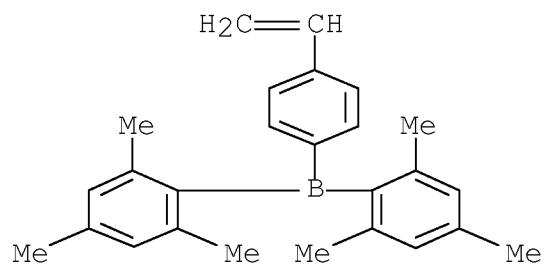
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CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
κO,κO']bis[2-(2-pyridinyl-κN)phenyl-κC]-,

polymer with (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI)
(CA INDEX NAME)

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CRN 856695-21-1

CMF C26 H29 B

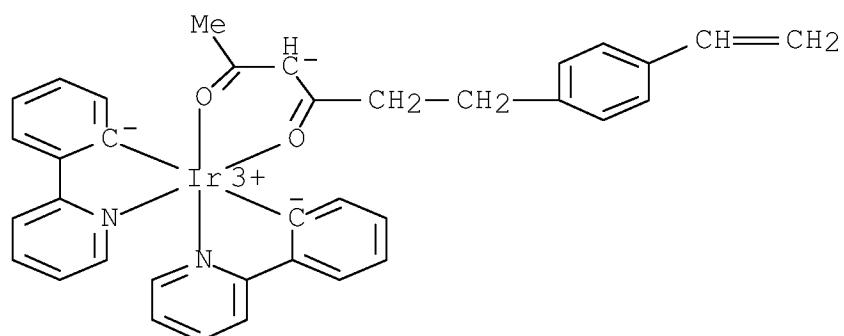


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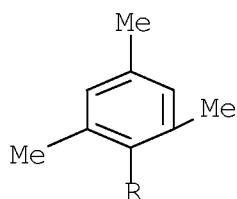
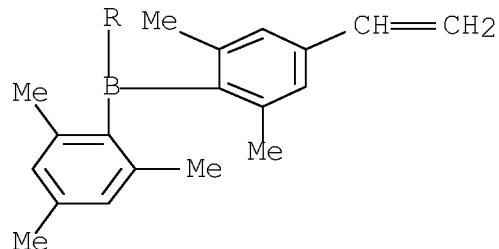
RN 856695-52-8 ZCA

CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
κO,κO']bis[2-(2-pyridinyl-κN)phenyl-κC]-,
polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-
trimethylphenyl)borane (9CI) (CA INDEX NAME)

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CRN 856695-22-2

CMF C28 H33 B

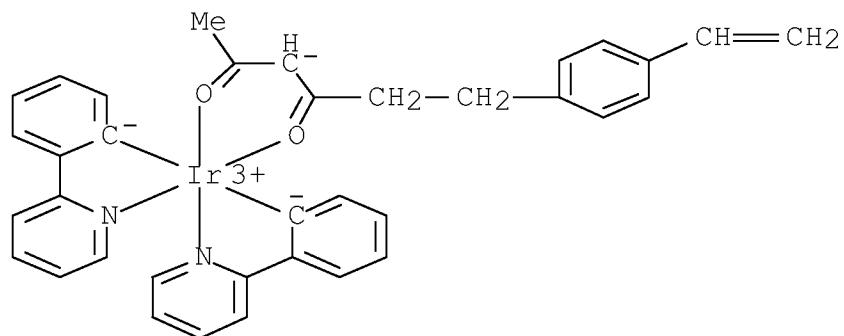


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CRN 481694-72-8

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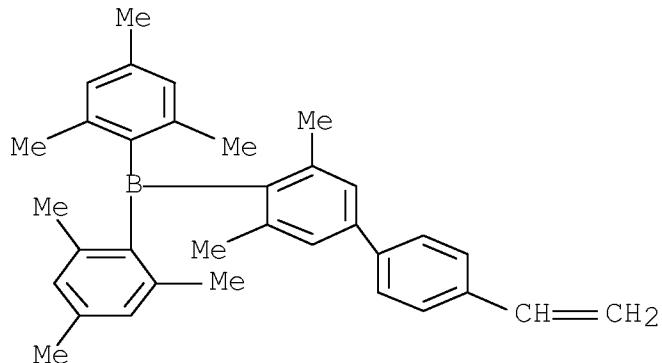
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trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 856695-27-7

CMF C34 H37 B

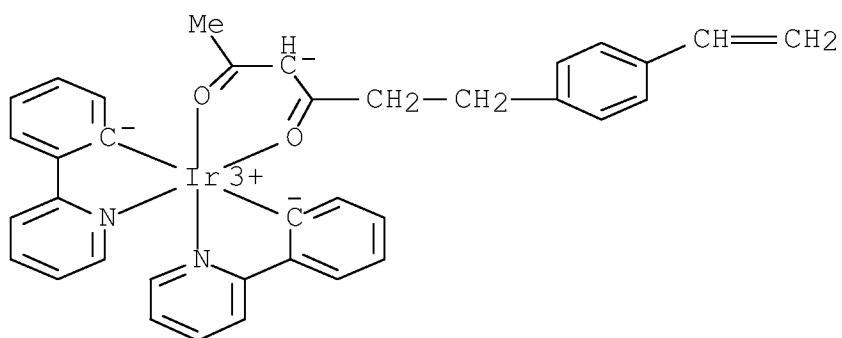


CM 2

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS

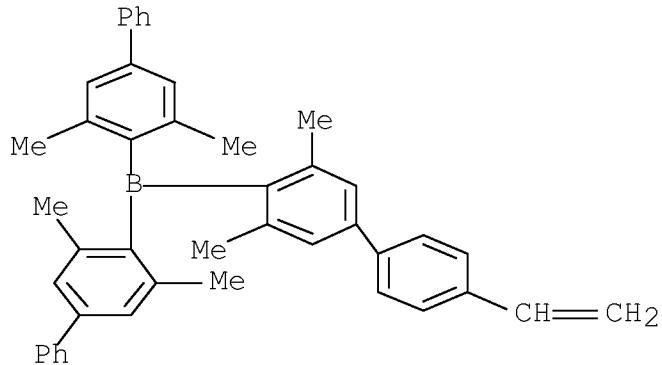


RN 856695-55-1 ZCA

CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
κO,κO']bis[2-(2-pyridyl-κN)phenyl-κC]-,
polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl)(4'-ethenyl-3,5-
dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX NAME)

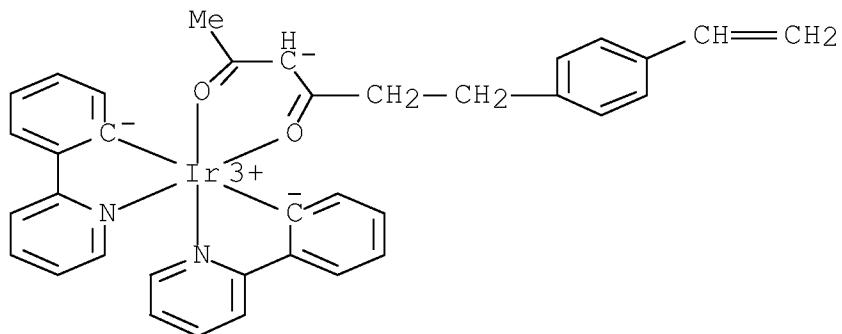
CM 1

CRN 856695-28-8
CMF C44 H41 B



CM 2

CRN 481694-72-8
CMF C36 H31 Ir N2 O2
CCI CCS

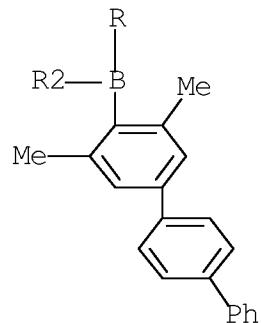


RN 856695-56-2 ZCA
CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
κO,κO']bis[2-(2-pyridinyl-κN)phenyl-κC]-,
polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-
ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX
NAME)

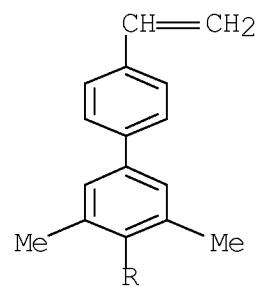
CM 1

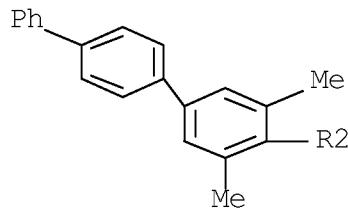
CRN 856695-35-7
CMF C56 H49 B

PAGE 1-A



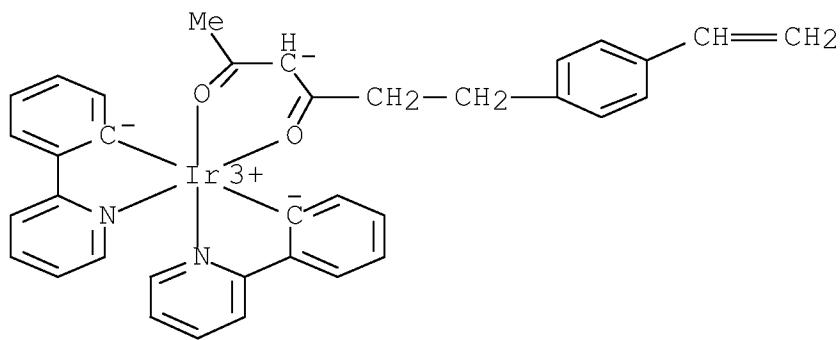
PAGE 2-A





CM 2

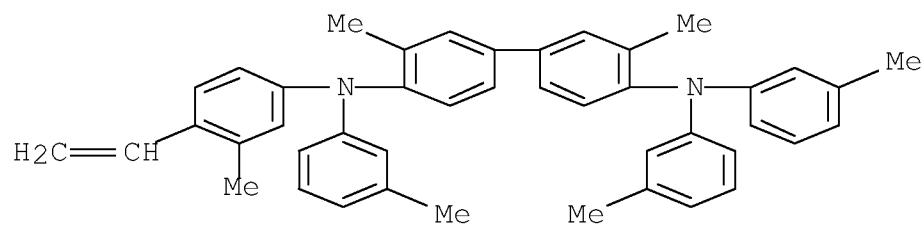
CRN 481694-72-8
 CMF C36 H31 Ir N2 O2
 CCI CCS



RN 856695-58-4 ZCA
 CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
 κO,κO']bis[2-(2-pyridylmethyl)phenyl-κC]-,
 polymer with N-(4-ethenyl-3-methylphenyl)-3',3'-dimethyl-N,N',N'-
 tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine and
 (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX
 NAME)

CM 1

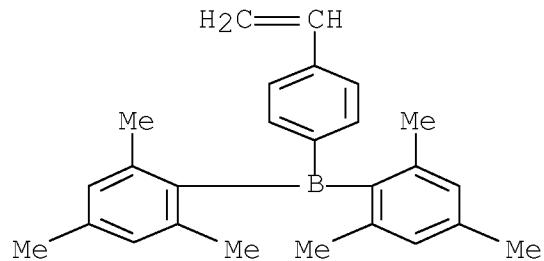
CRN 856695-39-1
 CMF C44 H42 N2



CM 2

CRN 856695-21-1

CMF C26 H29 B

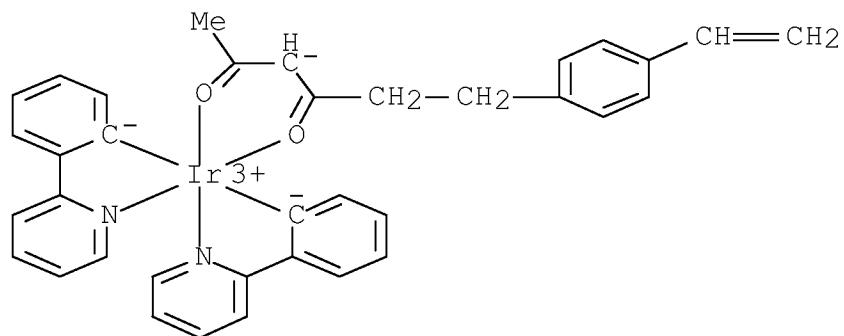


CM 3

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

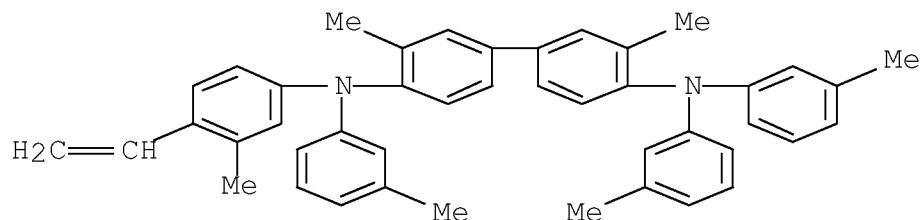
CCI CCS



RN 856695-59-5 ZCA
 CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
 κO,κO']bis[2-(2-pyridinyl-κN)phenyl-κC]-,
 polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-
 trimethylphenyl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-
 dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine
 (9CI) (CA INDEX NAME)

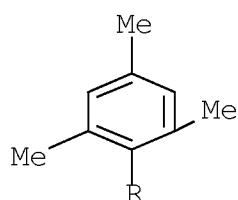
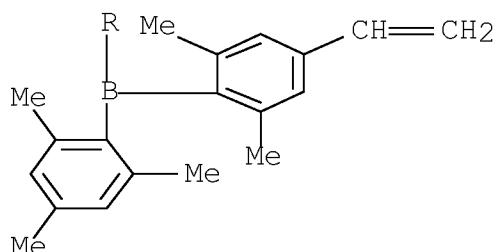
CM 1

CRN 856695-39-1
 CMF C44 H42 N2



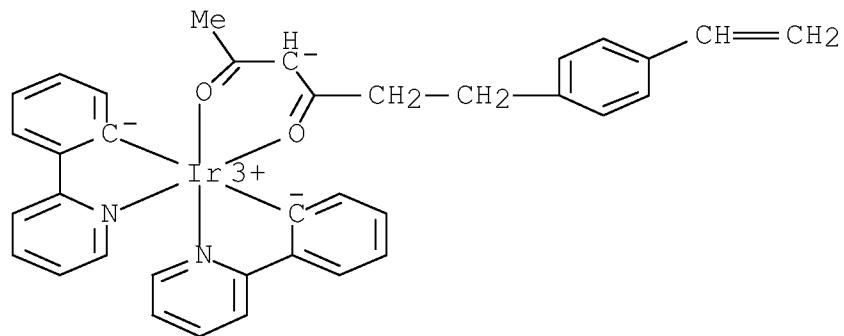
CM 2

CRN 856695-22-2
 CMF C28 H33 B



CM 3

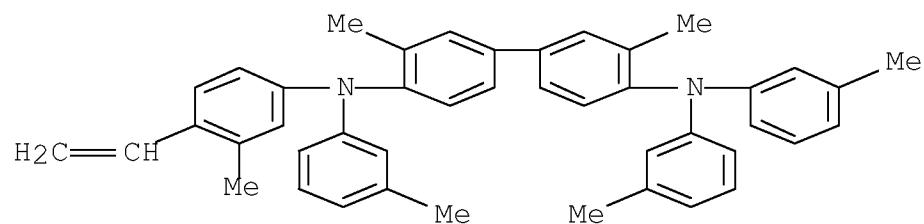
CRN 481694-72-8
CMF C36 H31 Ir N2 O2
CCI CCS



RN 856695-60-8 ZCA
CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato- κ O, κ O']bis[2-(2-pyridinyl- κ N)phenyl- κ C]-, polymer with (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

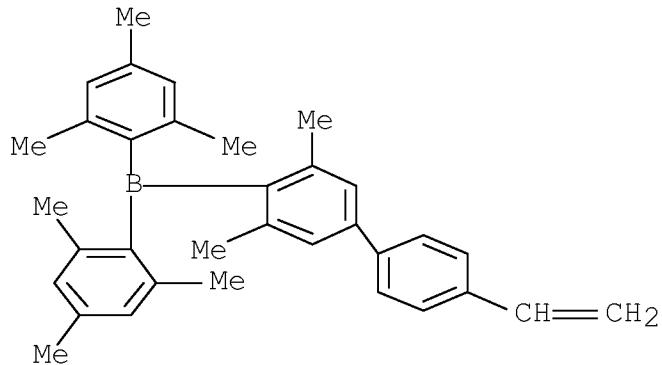
CM 1

CRN 856695-39-1
CMF C44 H42 N2



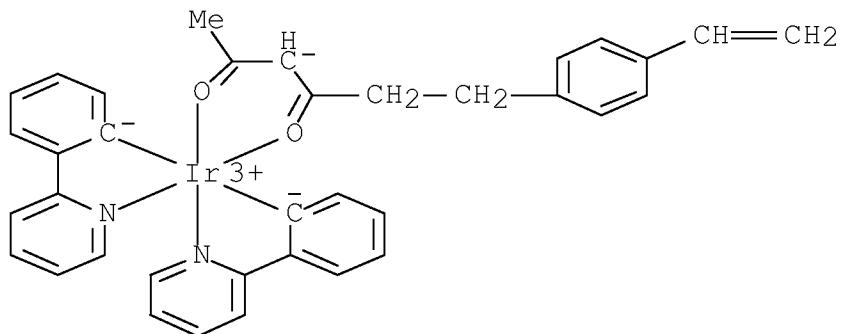
CM 2

CRN 856695-27-7
CMF C34 H37 B



CM 3

CRN 481694-72-8
CMF C36 H31 Ir N2 O2
CCI CCS



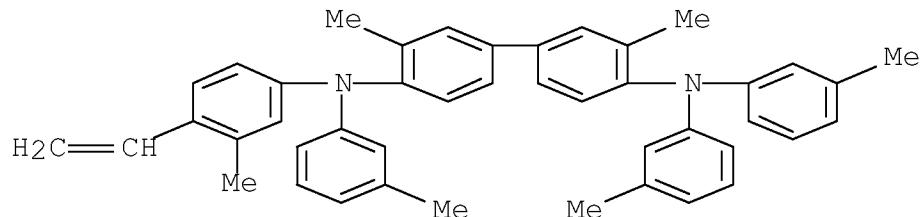
RN 856695-61-9 ZCA
CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
κO,κO']bis[2-(2-pyridinyl-κN)phenyl-κC]-,
polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl) (4'-ethenyl-3,5-
dimethyl[1,1'-biphenyl]-4-yl)borane and N-(4-ethenyl-3-methylphenyl)-
3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-

diamine (9CI) (CA INDEX NAME)

CM 1

CRN 856695-39-1

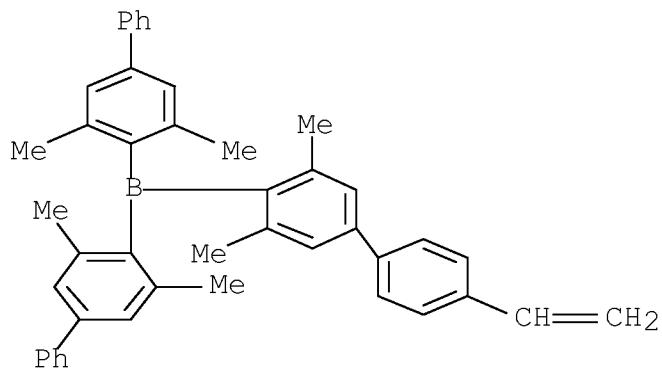
CMF C44 H42 N2



CM 2

CRN 856695-28-8

CMF C44 H41 B

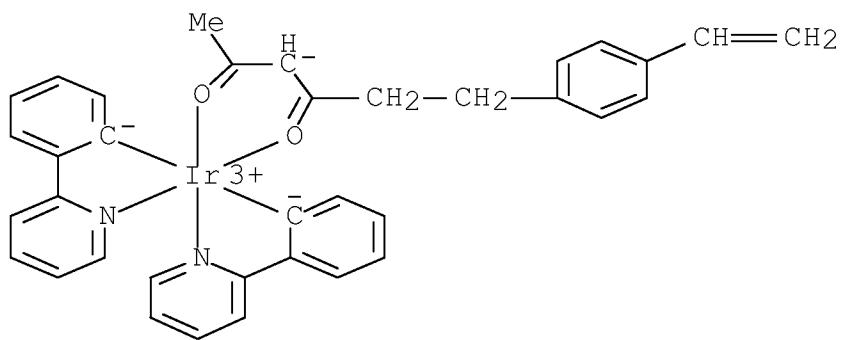


CM 3

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS



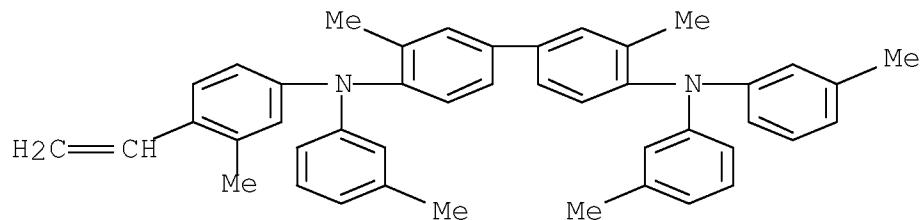
RN 856695-62-0 ZCA

CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
 $\kappa O, \kappa O'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-,
 polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-
 ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane and
 3,3'-dimethyl-N-(4-ethenyl-3-methylphenyl)-N,N',N'-tris(3-
 methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

CM 1

CRN 856695-39-1

CMF C44 H42 N2

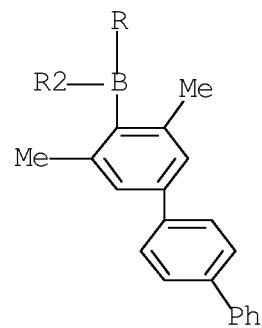


CM 2

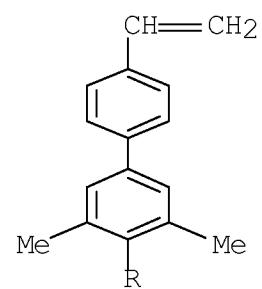
CRN 856695-35-7

CMF C56 H49 B

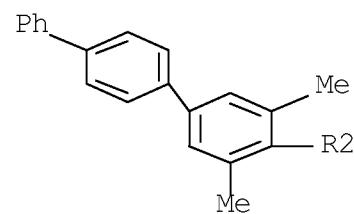
PAGE 1-A



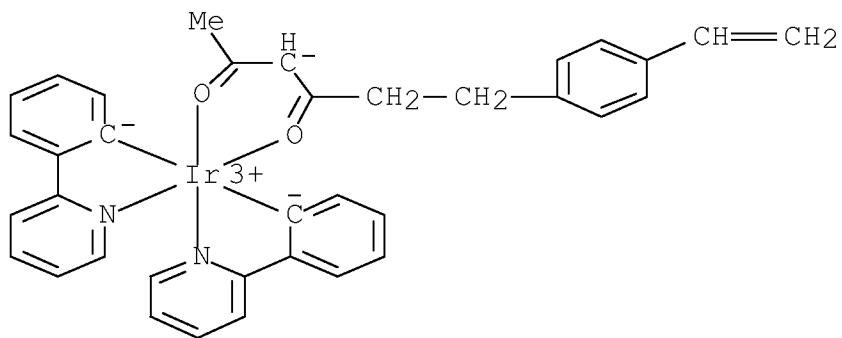
PAGE 2-A



PAGE 3-A



CRN 481694-72-8
CMF C36 H31 Ir N2 O2
CCI CCS

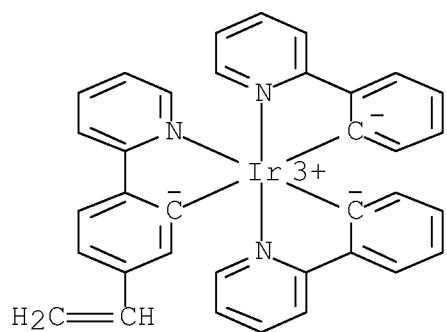


RN 857061-54-2 ZCA

CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

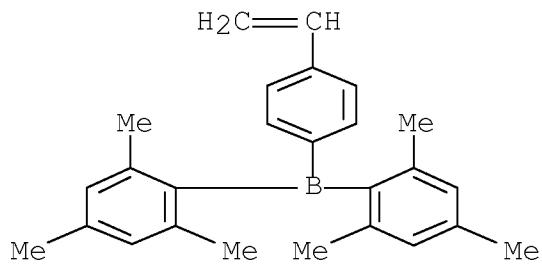
CRN 857061-53-1
CMF C35 H26 Ir N3
CCI CCS



CM 2

CRN 856695-21-1

CMF C26 H29 B



RN 857061-55-3 ZCA

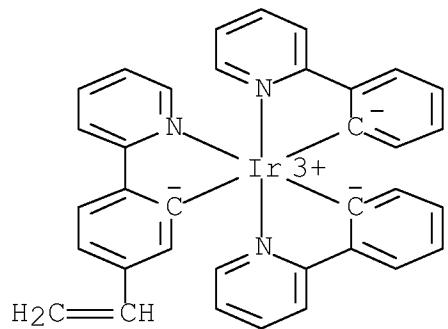
CN Iridium, [5-ethenyl-2-(2-pyridinyl- κ N)phenyl- κ C]bis[2-(2-pyridinyl- κ N)phenyl- κ C]-, polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

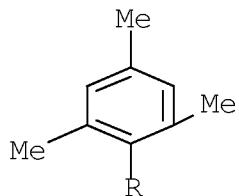
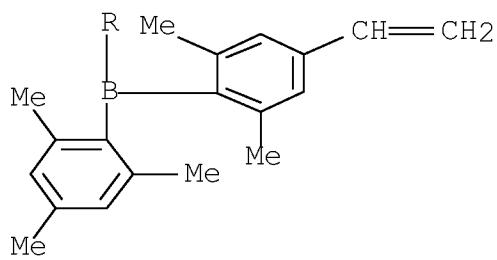
CCI CCS



CM 2

CRN 856695-22-2

CMF C28 H33 B



RN 857061-56-4 ZCA

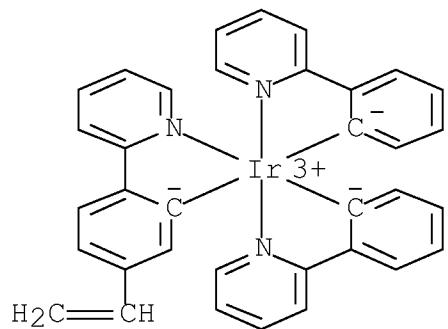
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

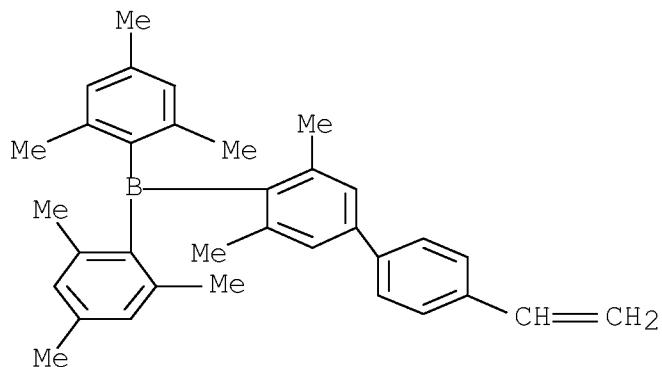
CMF C35 H26 Ir N3

CCI CCS



CM 2

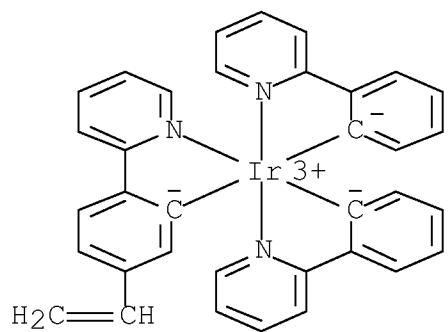
CRN 856695-27-7
CMF C34 H37 B



RN 857061-57-5 ZCA
CN Iridium, [5-ethenyl-2-(2-pyridinyl- κ N)phenyl- κ C]bis[2-(2-pyridinyl- κ N)phenyl- κ C]-, polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX NAME)

CM 1

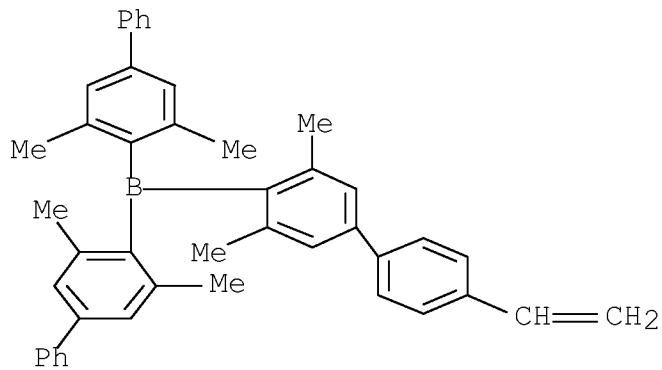
CRN 857061-53-1
CMF C35 H26 Ir N3
CCI CCS



CM 2

CRN 856695-28-8

CMF C44 H41 B



RN 857061-58-6 ZCA

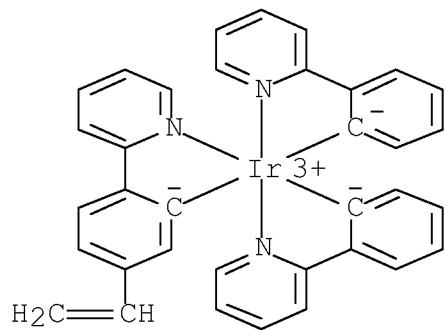
CN Iridium, [5-ethenyl-2-(2-pyridinyl- κ N)phenyl- κ C]bis[2-(2-pyridinyl- κ N)phenyl- κ C]-, polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

CCI CCS

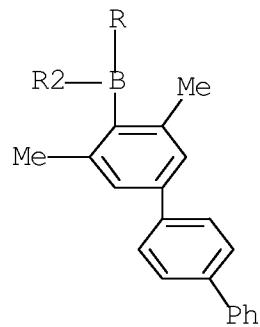


CM 2

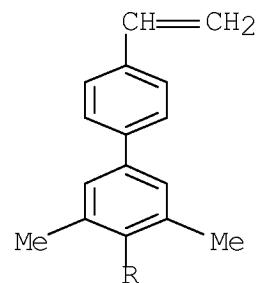
CRN 856695-35-7

CMF C56 H49 B

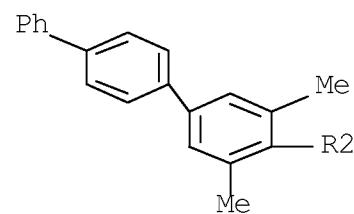
PAGE 1-A



PAGE 2-A



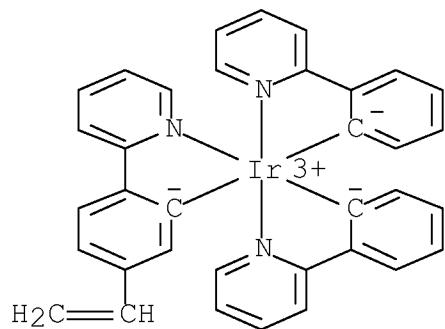
PAGE 3-A



CN Iridium, [5-ethenyl-2-(2-pyridinyl- κ N)phenyl- κ C]bis[2-(2-pyridinyl- κ N)phenyl- κ C]-, polymer with N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine and (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

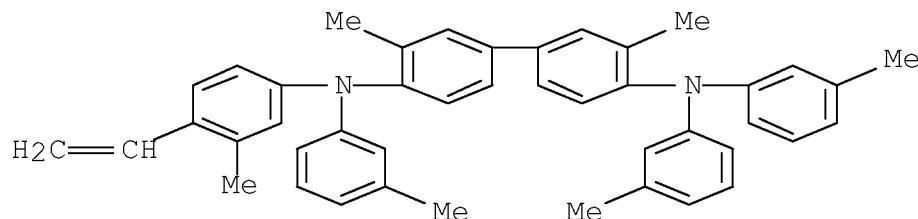
CM 1

CRN 857061-53-1
CMF C35 H26 Ir N3
CCI CCS



CM 2

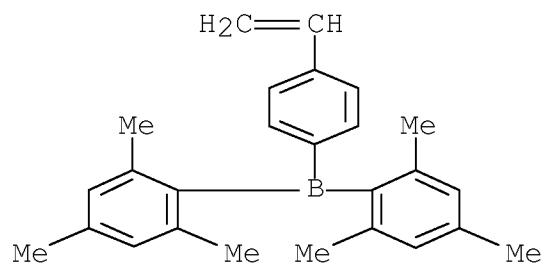
CRN 856695-39-1
CMF C44 H42 N2



CM 3

CRN 856695-21-1

CMF C26 H29 B



RN 857061-60-0 ZCA

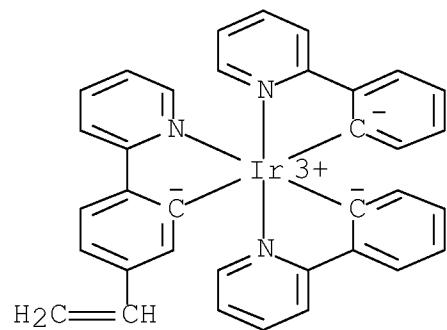
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-trimethylphenyl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

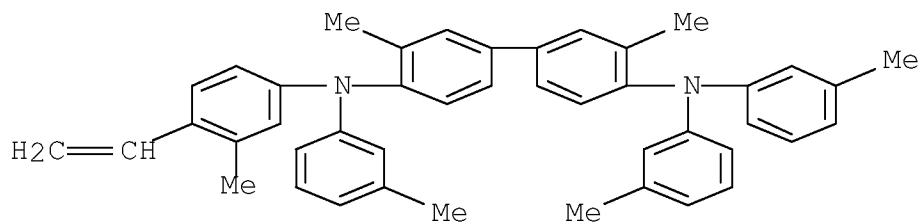
CCI CCS



CM 2

CRN 856695-39-1

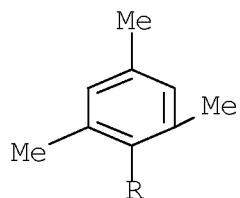
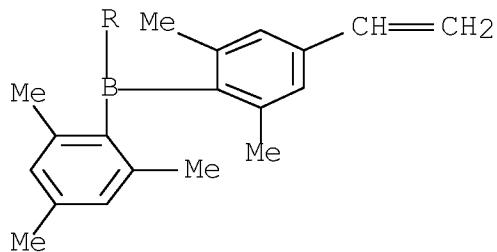
CMF C44 H42 N2



CM 3

CRN 856695-22-2

CMF C28 H33 B



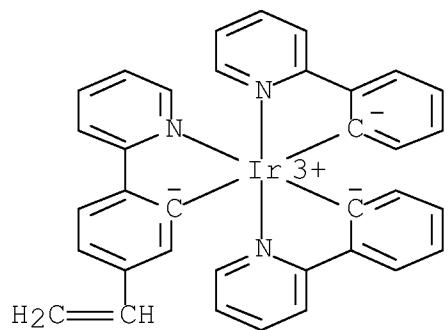
RN 857061-61-1 ZCA

CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC] -, polymer with (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

CM 1

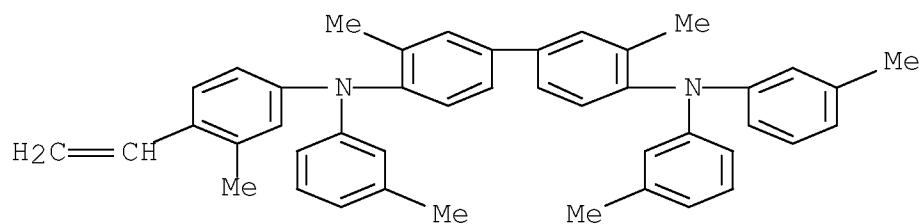
CRN 857061-53-1

CMF C35 H26 Ir N3
CCI CCS



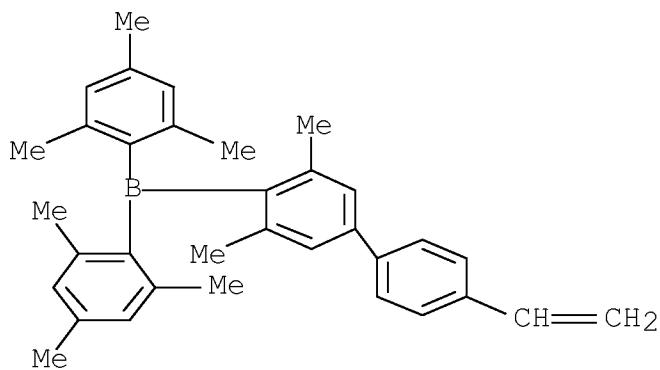
CM 2

CRN 856695-39-1
CMF C44 H42 N2



CM 3

CRN 856695-27-7
CMF C34 H37 B



RN 857061-62-2 ZCA

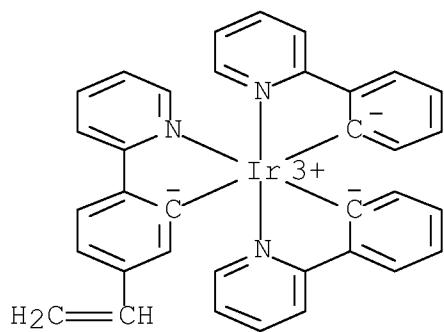
CN Iridium, [5-ethenyl-2-(2-pyridinyl- κ N)phenyl- κ C]bis[2-(2-pyridinyl- κ N)phenyl- κ C]-, polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane and N4-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N4,N4',N4'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

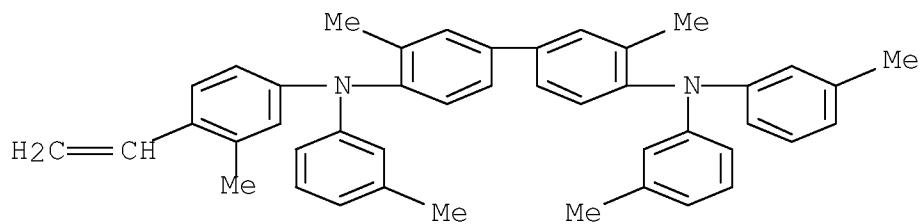
CCI CCS



CM 2

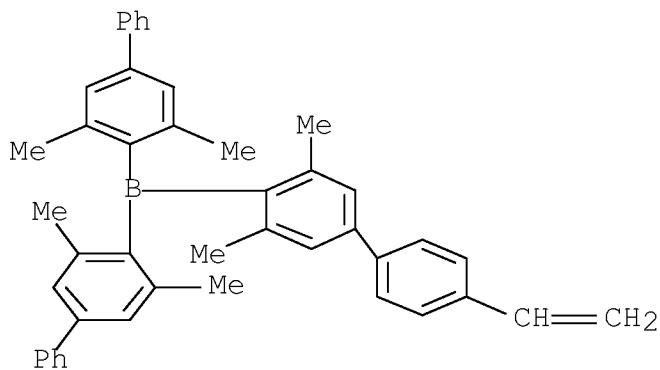
CRN 856695-39-1

CMF C44 H42 N2



CM 3

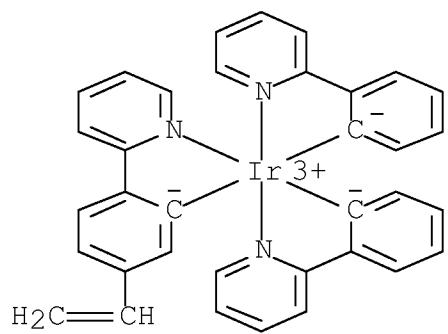
CRN 856695-28-8
CMF C44 H41 B



RN 857061-63-3 ZCA
CN Iridium, [5-ethenyl-2-(2-pyridinyl- κ N)phenyl- κ C]bis[2-(2-pyridinyl- κ N)phenyl- κ C]-, polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

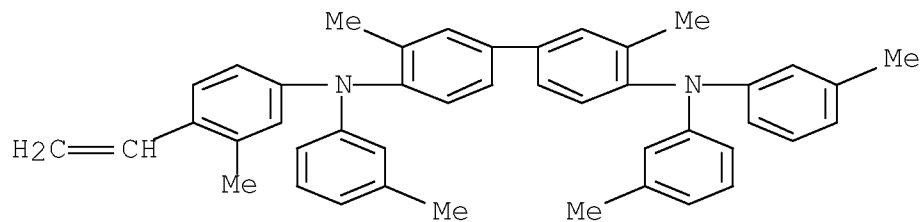
CM 1

CRN 857061-53-1
CMF C35 H26 Ir N3
CCI CCS



CM 2

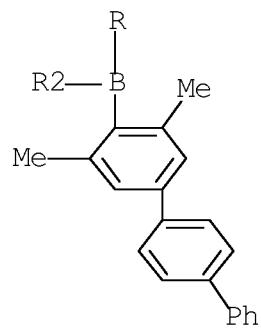
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CMF C44 H42 N2



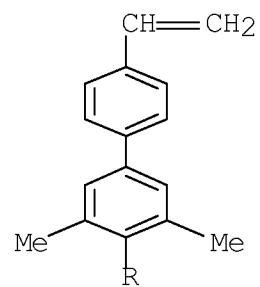
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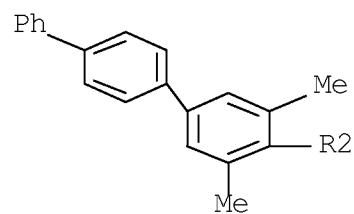
PAGE 1-A



PAGE 2-A



PAGE 3-A



ED Entered STN: 29 Jul 2004
 TI Organic electroluminescent device for displays and illumination source and its production method
 IN Kita, Hiroshi; Yamada, Taketoshi; Suzurizato, Yoshiyuki; Ueda, Noriko
 PA Konica Minolta Holdings Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 65 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM H05B033-14
 ICS C08F212-00; C08F220-34; C08F226-12; C08F293-00; C08G081-00;
 C08G085-00; C09K011-06; H05B033-10
 CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
 Section cross-reference(s): 37, 74

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004185967	A	20040702	JP 2002-351157	20021203

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PRAI JP 2002-351157 20021203 <--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2004185967	ICM	H05B033-14
	ICS	C08F212-00; C08F220-34; C08F226-12; C08F293-00; C08G081-00; C08G085-00; C09K011-06; H05B033-10
	IPCI	H05B0033-14 [ICM, 7]; C08F0212-00 [ICS, 7]; C08F0220-34 [ICS, 7]; C08F0220-00 [ICS, 7, C*]; C08F0226-12 [ICS, 7]; C08F0226-00 [ICS, 7, C*]; C08F0293-00 [ICS, 7]; C08G0081-00 [ICS, 7]; C08G0085-00 [ICS, 7]; C09K0011-06 [ICS, 7]; H05B0033-10 [ICS, 7]
	IPCR	C08F0212-00 [I, A]; C08F0212-00 [I, C*]; C08F0220-00 [I, C*]; C08F0220-34 [I, A]; C08F0226-00 [I, C*]; C08F0226-12 [I, A]; C08F0293-00 [I, A]; C08F0293-00 [I, C*]; C08G0081-00 [I, A]; C08G0081-00 [I, C*]; C08G0085-00 [I, A]; C08G0085-00 [I, C*]; C09K0011-06 [I, A]; C09K0011-06 [I, C*]; H05B0033-10 [I, A]; H05B0033-10 [I, C*]; H05B0033-14 [I, A]; H05B0033-14 [I, C*]
	FTERM	3K007/AB02; 3K007/AB03; 3K007/AB04; 3K007/AB11;

3K007/AB18; 3K007/BA06; 3K007/DB03; 3K007/FA01;
4J026/HA08; 4J026/HA11; 4J026/HA19; 4J026/HB08;
4J026/HB11; 4J026/HB19; 4J026/HC47; 4J031/AA49;
4J031/AB04; 4J031/AC03; 4J031/AD01; 4J031/AD03;
4J031/AF21; 4J031/AF23; 4J031/BA06; 4J031/BA11;
4J031/BA15; 4J031/BA17; 4J031/BB01; 4J031/BB02;
4J031/BB03; 4J031/BB04; 4J031/BB05; 4J031/BC19;
4J031/BD21; 4J031/BD23; 4J031/CD28; 4J100/AB07P;
4J100/AB07Q; 4J100/AB07R; 4J100/AB15Q;
4J100/AB15R; 4J100/AL08P; 4J100/AL08Q;
4J100/AL08R; 4J100/AL65Q; 4J100/AQ26P;
4J100/BA01R; 4J100/BA27Q; 4J100/BA71R;
4J100/BA87P; 4J100/BB07P; 4J100/BB07Q;
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4J100/BC42P; 4J100/BC43P; 4J100/BC43Q;
4J100/BC43R; 4J100/BC44P; 4J100/BC44Q;
4J100/BC48P; 4J100/BC49Q; 4J100/BC49R;
4J100/BC65P; 4J100/BC73Q; 4J100/BC73R;
4J100/BC75Q; 4J100/BC75R; 4J100/BC79Q;
4J100/CA04; 4J100/CA05; 4J100/DA55; 4J100/DA61;
4J100/JA32; 4J100/JA43

AB The invention relates to an org. electroluminescent device comprising a light-emitting layer contg. a phosphorescent dopant and a multifunctioning polymer, wherein, at least, the two of functional mol. units selected from a luminescent host unit, a hole transporting unit, and an electron transporting unit constitute the multifunctioning polymer.

ST org electroluminescent device phosphoresce multifunction polymer

IT Electroluminescent devices

Light sources

Optical imaging devices

Phosphorescent substances

(org. electroluminescent device having phosphorescent dopant and multifunctioning polymer in light emitting layer)

IT Polyesters, uses

Polyethers, uses

Polyurethanes, uses

(org. electroluminescent device having phosphorescent dopant and multifunctioning polymer in light emitting layer)

IT 714976-00-8 714976-02-0 714976-05-3 714976-08-6 714976-11-1

714976-13-3 714976-16-6 714976-18-8 714976-21-3 714976-25-7

714976-27-9 714976-29-1 714976-31-5 714976-33-7

714976-35-9 714976-36-0 714976-38-2

(org. electroluminescent device having phosphorescent dopant and multifunctioning polymer in light emitting layer)

IT 94928-86-6 344796-22-1 376367-93-0

(org. electroluminescent device having phosphorescent dopant and

multifunctioning polymer in light emitting layer)

IT 714976-33-7 714976-36-0

(org. electroluminescent device having phosphorescent dopant and multifunctioning polymer in light emitting layer)

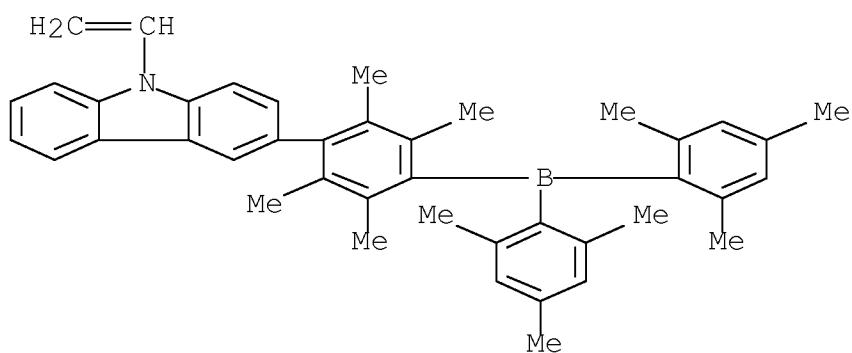
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CN 9H-Carbazole, 3-[4-[bis(2,4,6-trimethylphenyl)boryl]-2,3,5,6-tetramethylphenyl]-9-ethenyl-, polymer with 3,5-bis(2,5-dimethylphenyl)-4-(4-ethenylphenyl)-4H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 714976-32-6

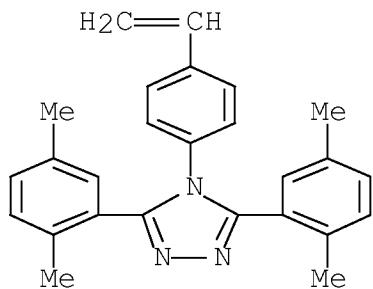
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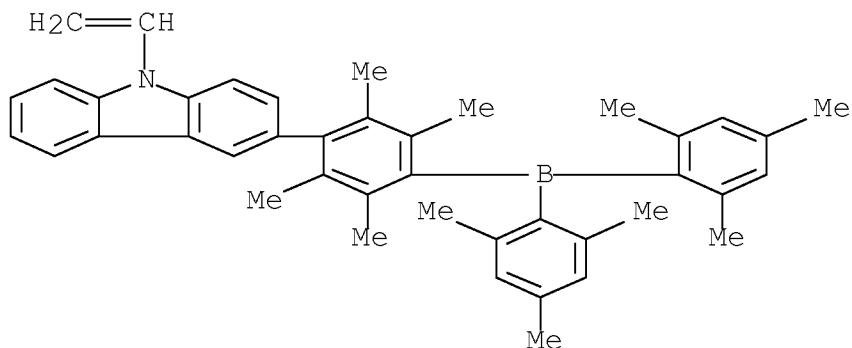
CMF C26 H25 N3



RN 714976-36-0 ZCA
CN Benzenamine, 4,4'-[[4-[(4-ethenylphenyl)phenylamino]-2,5-dimethylphenyl]methylene]bis[2,5-dimethyl-N,N-diphenyl-, polymer with 3,5-bis(2,5-dimethylphenyl)-4-(4-ethenylphenyl)-4H-1,2,4-triazole and 3-[4-[bis(2,4,6-trimethylphenyl)boryl]-2,3,5,6-tetramethylphenyl]-9-ethenyl-9H-carbazole (9CI) (CA INDEX NAME)

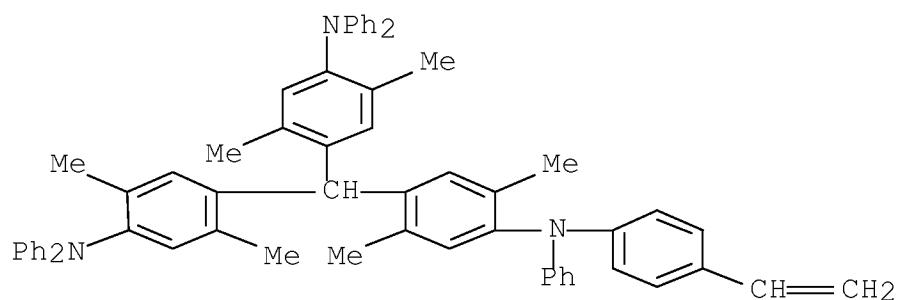
CM 1

CRN 714976-32-6
CMF C42 H44 B N



CM 2

CRN 714976-20-2
CMF C63 H57 N3



CM 3

CRN 714976-14-4
CMF C26 H25 N3

